INDEX

ABRAHAM-SHRAUNER, B. Exact damped sinusoidal electric field of nonlinear one-dimensional Vlasov–Maxwell equations, 197

AKCASU, A. Z. *See* BELBACHIR, A. H. and AKCASU, A. Z.

AN, Z. G., LEE, Y. C., LEE, T. T. and CHEN, H. H. Cyclotron radiation from a relativistic electron beam in a static magnetic field, 55

ANDERSON, D. and LISAK, M. Particle losses due to RF-enhanced pitch-angle scattering into velocity space loss regions, 273

AULUCK, S. K. H. Spontaneous generation of magnetic field in an imploding plasma, 349

BARR, H. C., BOYD, T. J. M. and RANKIN, R. Theory of Raman sidescatter from a magnetized plasma, 331

BELBACHIR, A. H. and AKCASU, A. Z. Pump fluctuation effects on parametric instabilities in plasmas, 7

BHATNAGAR, V. P. *See* KOCH, R., BHATNAGAR, V. P. and WEYNANTS, R. R.

BOND, D. J. *See* COPPINS, M., BOND, D. J. and HAINES, M. G.

BOYD, T. J. M. *See* BARR, H. C., BOYD, T. J. M. and RANKIN, R.

BURMAN, R. R. and MCCLELLAND, D. E. Dissipation by thermal forces in quantum plasmas, 369

BUTI, B. *See* DASH, S. S., SHARMA, A. S. and BUTI, B.

CHEN, H. H. *See* An, Z. G., LEE, Y. C., LEE, T. T. and CHEN, H. H.

COPPINS, M., BOND, D. J. and HAINES, M. G. On the Vlasov fluid stability of the $m = 0$ mode in a pure Z pinch, 1

DA JORNADA, E. H. *See* TSAI, S. T., TANAKA, M., GAFFEY, J. D., DA JORNADA, E. H., WU, C. S. and ZIEBELL, L. F.

DASH, S. S., SHARMA, A. S. and BUTI, B. Electron-acoustic and ion–ion hybrid resonance-drift instability in inhomogeneous multi-ion-species magnetoplasmas, 255

DAVIES, B. *See* DEWAR, R. L. and DAVIES, B.

DE MENNA, L. and MARTINI, S. Low aspect-ratio MHD toroidal equilibria, 319

DEWAR, R. L. and DAVIES, B. Bifurcation of the resistive Alfvén wave spectrum, 443

DOGRA, V. K. and UBEROI, M. S. Stability of a magnetized positive column between coaxial cylinders, 129

DUHAU, S. Hydromagnetic equations for collisionless plasmas in strong magnetic fields, 23

DWIVEDI, C. B. *See* GUHA, S. and DWIVEDI, C. B.

EDMISTON, J. P. and KENNEL, C. F. A parametric survey of the first critical Mach number for a fast MHD shock, 429

FEINBERG, B. *See* PINCOSY, P. A., MYERS, B. R., LEVINE, M. A., FEINBERG, B., NILAND, R. A. and SOROKA, L.

GAFFEY, J. D. *See* TSAI, S. T., TANAKA, M., GAFFEY, J. D., DA JORNADA, E. H., WU, C. S. and ZIEBELL, L. F.

GRAUER, R. and REBHAN, A. Analysis of ideal MHD equilibrium and axisymmetric stability for finite aspect ratio tokamaks with elliptic cross-section and flat current profile, 99

GRAYSON, D. J. and HELLBERG, M. A. A numerical investigation of current-driven instabilities near the ion–ion hybrid frequency, 387

GRIMM, R. C. *See* RYU, C. M. and GRIMM, R. C.

GUHA, S. and DWIVEDI, C. B. Linear and nonlinear propagation of electron-acoustic wave in a multi-species plasma, 283

GUILLEN, M. A. and LIBOFF, R. L. Unified kinetic theory of plasma correlations, 81

HAINES, M. G. *See* COPPINS, M., BOND, D. J. and HAINES, M. G.

HELLBERG, M. A. *See* GRAYSON, D. J. and HELLBERG, M. A.

JENSEN, T. H. and MCCLAIN, F. W. Axisymmetric control of large tokamak devices, 399

KENNEL, C. F. *See* EDMISTON, J. P. and KENNEL, C. F.

KOCH, R., BHATNAGAR, V. P. and WEYNANTS, R. R. An asymptotic analysis of the radiation pattern of ion cyclotron resonance heating antennas, 291

KUIJPERS, J. *See* MELROSE, D. B. and KUIJPERS, J.

LAEDKE, E. W. and SPATSCHEK, K. H. Stability theorem for KdV-type equations, 263

LEE, T. T. *See* AN, Z. G., LEE, Y. C., LEE, T. T. and CHEN, H. H.

LEE, Y. C. *See* AN, Z. G., LEE, Y. C., LEE, T. T. and CHEN, H. H.

LEVINE, M. A. *See* PINCOSY, P. A., MYERS, B. R., LEVINE, M. A., FEINBERG, B., NILAND, R. A. and SOROKA, L.

LIBOFF, R. L. *See* GUILLEN, M. A. and LIBOFF, R. L.

LISAK, M. *See* ANDERSON, D. and LISAK, M.

MALARA, F. *See* ZIMBARDO, G., VELTRI, P. and MALARA, F.

MARTINI, S. *See* DE MENNA, L. and MARTINI, S.

MCCABE, J. H. Continued fraction expansions for the plasma dispersion function, 479

MCCLAIN, F. W. *See* JENSEN, T. H. and MCCLAIN, F. W.

MCCLELLAND, D. E. *See* BURMAN, R. R. and MCCLELLAND, D. E.

MELROSE, D. B. and KUIJPERS, J. Resonant parts of nonlinear response tensors, 239

MILIĆ, B. S. *See* ŽIGMAN, V. J. and MILIĆ, B. S.

MYERS, B. R. *See* PINCOSY, P. A., Myers, B. R., LEVINE, M. A., FEINBERG, B., NILAND, R. A. and SOROKA, L.

NILAND, R. A. *See* PINCOSY, P. A., MYERS, B. R., LEVINE, M. A., FEINBERG, B., NILAND, R. A. and SOROKA, L.

PEYRAUD, N. HIGH-energy kinetic theory of a particle beam generated plasma, 35

PINCOSY, P. A., MYERS, B. R., LEVINE, M. A., FEINBERG, B., NILAND, R. A. and SOROKA, L. Experimental results on trapping a gun plasma in a toroidal magnetic cusp experiment, 413

RANKIN, R. *See* BARR, H. C., BOYD, T. J. M. and RANKIN, R.

RAO, N. N., SHUKLA, P. K. and YU, M. Y. Laser-induced profile modifications in magnetized plasmas, 119

REBHAN, E. *See* GRAUER, R. and REBHAN, E.

RIZK, H. M. Toroidal plasma configuration with non-planar magnetic axis, 19

RYU, C. M. and GRIMM, R. C. The spectrum of resistive MD modes in cylindrical plasmas, 207

SAWLEY, M. L. The ponderomotive force of an electromagnetic wave in a collisional plasma, 487

SHARMA, A. S. *See* DASH, S. S., SHARMA, A. S. and BUTI, B.

SHEERIN, J. P. *See* SPANGLER, S. R. and SHEERIN, J. P.

SHUKLA, P. K. *See* RAO, N. N., SHUKLA, P. K. and YU, M. Y.

SOROKA, L. *See* PINCOSY, P. A., MYERS, B. R., LEVINE, M. A., FEINBERG, B., NILAND, R. A. and SOROKA, L.

SPANGLER, S. R. and SHEERIN, J. P. Corrigendum, 347

SPATSCHEK, K. H., *See* LAEDKE, E. W. and SPATSCHEK, K. H.

STOREY, L. R. O. The energy density of electromagnetic waves in a cold magnetoplasma, 309

TANAKA, M. *See* TSAI, S. T., TANAKA, M., GAFFEY, J. D., DA JORNADA, E. H., WU, C. S. and ZIEBELL, L. F.

TROTIGNON, J. G. Longitudinal electron waves for a plasma with a bi-Maxwellian velocity distribution, 463

TSAI, S. T., TANAKA, M., GAFFEY, J. D., DA JORNADA, E. H., WU, C. S. and ZIEBELL, L. F. Effect of electron thermal anisotropy on the kinetic cross-field streaming instability, 159

UBEROI, M. S. *See* DOGRA, V. K. and UBEROI, M. S.

VELTRI, P. *See* ZIMBARDO, G., VELTRI, P. and MALARA, F.

WEYNANTS, R. R. *See* KOCH, R., BHATNAGAR, V. P. and WEYNANTS, R. R.

WU, C. S. *See* TSAI, S. T., TANAKA, M., GAFFEY, J. D., DA JORNADA, E. H., WU, C. S. and ZIEBELL, L. F.

YU, M. Y. *See* RAO, N. N., SHUKLA, P. K. and YU, M. Y.

ZIEBELL, L. F. *See* TSAI, S. T., TANAKA, M., GAFFEY, J. D., DA JORNADA, E. H., WU, C. S. and ZIEBELL, L. F.

ŽIGMAN, V. J. and MILIĆ, B. S. Kinetic theory of electromagnetic instabilities in weakly ionized neon plasma with inelastic collisions, 359

ZIMBARDO, G., VELTRI, P. and MALARA, F. Diffusion coefficient and Kolmogorov entropy of magnetic field lines, 141

REVIEW

Nonlinear Waves. Edited by L. Debnath, 495